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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of

Ke Liu et al

Serial No.: 10/691,794

Filed: October 23, 2003

Title: Intermittent Application of Syngas to
NOx Trap and/or Diesel Engine

Docket No.: C-2990HyS

Art Unit: 3748

Examiner: Nguyen, Tu Minh

Please enter
this amendment
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RESPONSE

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

I hereby certify that this correspondence is being
facsimile transmitted to the Patent and Trademark
Office (Fax No. 703-872-9306) on

January 21, 2005

Barbara Cocero

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Sir:

1. This paper is responsive to the Final Rejection dated December 21, 2004; claims 1-4 remain for consideration.

2,3. Claim 1 is rejected as anticipated by Kirwan et al (Kirwan). This rejection is being taken in the light of "Response to Arguments" on page 6 of the Office Action. It is quite clear that the Office Action has the situation reversed. There is no claim requirement that the amount of syngas be applied to the engine during first periods of time interspersed with second periods of time, nor that during second periods of time the engine has different amounts of syngas applied to it. Claim 1 includes an engine and an auxiliary system. It is the auxiliary system that will have syngas applied to it, "repetitively, during operation of said engine"... "during first periods of time interspersed with said second periods of time". What happens to the engine is irrelevant in this clause of the claim.

The last clause of claim 1 requires that the amount of syngas generated must be reduced, or a mini CPO must feed the reformer. Kirwan has no mini CPO. Kirwan does not teach "reducing the amount of syngas generated". In fact, the